CLAIMS

What is claimed is:

1	1. A system for tracking a data transfer transaction across a multi-hop		
2	network, comprising:		
3	a plurality of devices that conduct a data transfer transaction having at least		
4	one transfer segment across the multi-hop network, the plurality of devices including an		
5	origination device and a destination device;		
6	a service device in communication with the plurality of devices, the service		
7	device generating a globally unique transaction identifier associated with the data transfer		
8	transaction; and		
9	a tracking table maintained in the service device to track the data transfer		
10	transaction from the origination device to the destination device, the tracking table being		
11	associated with the globally unique transaction identifier.		
1	2. The system of claim 1, further comprising:		
2	a session identifier associated with each of the plurality of devices;		
3	a job identifier associated with the segment transfer, the job identifier being		
4	generated by the respective one of the plurality of devices that conducts the segment		
5	transfer.		

- The system of claim 1, wherein the service device transmits the globally unique transaction identifier to a respective one of the plurality of devices upon receiving a job identifier generated by the respective one of the plurality of devices.
- 1 4. The system of claim 3, wherein the plurality of devices each transmit an
 2 associated session identifier, a new job identifier, and the globally unique transaction
 3 identifier to the service device upon conducting the segment transfer to facilitate tracking of
 4 the segment transfer by the service device.
- The system of claim 4, wherein the service device tracks the data transfer transaction by drawing an association between a first transaction identifier received from the plurality of devices and a second transaction identifier associated with the tracking table, the service device storing the respective session identifier and the new job identifier in the tracking table.
 - 6. A method for tracking a data transfer transaction across a multi-hop network, comprising the steps of:

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conducting a data transfer transaction among a plurality of devices in the
multi-hop network, the data transfer segment having at least one transfer segment across the
multi-hop network, the plurality of devices including an origination device and a destination
device;

- generating a globally unique transaction identifier associated with the data
 transfer transaction in a service device, the service device being in communication with the
 plurality of devices; and
 maintaining a tracking table in the service device to track the data transfer
- maintaining a tracking table in the service device to track the data transfer
 transaction from the origination device to the destination device, the tracking table being
 associated with the globally unique transaction identifier.
- 7. The method of claim 6, further comprising the steps of:
 associating a session identifier with each of the plurality of devices;
 associating a job identifier with the segment transfer, the job identifier being
 generated by the respective one of the plurality of devices that conducts the segment
 transfer.
- 1 8. The method of claim 6, further comprising the step of transmitting the
 2 globally unique transaction identifier from the service device to a respective one of the
 3 plurality of devices upon receiving a job identifier generated by the respective one of the
 4 plurality of devices.
- 1 9. The method of claim 8, further comprising the step of transmitting an
 2 associated session identifier, a new job identifier, and the globally unique transaction
 3 identifier from the plurality of devices to the service device upon conducting the segment
 4 transfer to facilitate tracking of the segment transfer by the service device.

1	iu. The m	eurod of claim 9, further comprising the step of tracking the data	
2	transfer transaction in	the service device by drawing an association between a first	
3	transaction identifier re	eceived from the plurality of devices and a second transaction identifier	
4	associated with the tra	cking table, the service device storing the respective session identifier	
5	and the new job identifier in the tracking table.		
1	11. A syst	em for tracking a data transfer transaction across a multi-hop	
2	network, comprising:		
3	means	for conducting a data transfer transaction among a plurality of devices	
4	in the multi-hop netwo	rk, the data transfer segment having at least one transfer segment	
5	across the multi-hop network, the plurality of devices including an origination device and a		
6	destination device;		
7	means	s for generating a globally unique transaction identifier associated with	
8	the data transfer transa	action in a service device, the service device being in communication	
9	with the plurality of de	vices; and	
10	mean	s for maintaining a tracking table in the service device to track the data	
11	transfer transaction fro	om the origination device to the destination device, the tracking table	
12	being associated with	the globally unique transaction identifier.	

means for associating a session identifier with each of the plurality of

The system of claim 11, further comprising:

12.

devices;

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- 4 means for associating a job identifier with the segment transfer, the job
- 5 identifier being generated by a respective one of the plurality of devices that conducts the
- 6 segment transfer.
- 1 13. The system of claim 11, further comprising means for transmitting the
- globally unique transaction identifier from the service device to a respective one of the
- 3 plurality of devices upon receiving a job identifier generated by the respective one of the
- 4 plurality of devices.
- 1 14. The system of claim 13, further comprising means for transmitting an
- associated session identifier, a new job identifier, and the globally unique transaction
- 3 identifier from the plurality of devices to the service device upon conducting the segment
- transfer to facilitate tracking of the segment transfer by the service device.
- 1 15. The system of claim 14, further comprising means for tracking the data
- transfer transaction in the service device by drawing an association between a first
- 3 transaction identifier received from the plurality of devices and a second transaction identifier
- 4 associated with the tracking table, the service device storing the respective session identifier
- 5 and the new job identifier in the tracking table.